| | Application No. | Applicant(s) | |
|--|---|---|--------------------------|
| Notice of Allowability | 10/716,991 | MEARS ET AL. | |
| | Examiner | Art Unit | 1 |
| | Savitri Mulpuri | 2812 | kn |
| The MAILING DATE of this communication appeal of the communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED or other appropriate com IGHTS. This application is | in this application. If not include munication will be mailed in due of | d course. THIS |
| 1. This communication is responsive to 11/9/2003. | • | | |
| 2. The allowed claim(s) is/are 77-112. | | · | |
| 3. The drawings filed on are accepted by the Examine | r | | |
| 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). | e been received. e been received in Applica | ation No | ion from the |
| * Certified copies not received: | | • | , |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. | | | |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ⊠ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | | |
| 1) ⊠ hereto or 2) ☐ to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date | | | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of | l.84(c)) should be written o the header according to 37 | n the drawings in the front (not the CFR 1.121(d). | back) of |
| 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. | | | |
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| Attachment(a) | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5. Notice o | Informal Patent Application (PTC | D-152) |
| 2. 🗵 Notice of Draftperson's Patent Drawing Review (PTO-948) | | Summary (PTO-413), | |
| 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date 11/9/2003 | 08), 7. ⊠ Examine | lo./Mail Date r's Amendment/Comment | |
| 4. Examiner's Comment Regarding Requirement for Deposit | | r's Statement of Reasons for Allo | wance |
| of Biological Material | 9. 🗌 Other | - (/·m. | lana |
| | | Savitri Mulpuri Primary Examiner Art Unit: 2812 | |

Application/Control Number: 10/716,991

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Regan on 5/17/04

The application has been amended as follows:

In specification:

Page 1, section (0001) line 2 after serial nos add ---10/603621---; after "and" add ---10/603696---

Page 12, section (0039) last line after "art" add ---for example, group IV semiconductor is germanium. ----

Page 21, section 90062), line 7 after "626601", add ---whose serial numbers are 10/647069 and 10/647060---

The following is an examiner's statement of reasons for allowance: prior art neither teach nor suggest a method of making semiconductor device comprising: forming superlattice comprising plurality of stacked groups of layers, each group of layers of the superlattice comprising a plurality of stacked base germanium monolayer defining a base germanium portion and an energy modifying layer, which comprises at

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least one non-semiconductor monolayer constrained within a crystal lattice of adjacent base germanium portions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Monday to Friday 8:00 to 4:30.

Savitri Mulpuri Primary Examiner Art Unit 2812